



Features

- Available in E6 values
- Current rating to 2.0 amps
- Lead free
- RoHS compliant*

Applications

- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

SRR7045 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Typ.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
SRR7045-100M	10	± 20	30	2.52	25	0.042	2.00	1.70
SRR7045-150M	15	± 20	31	2.52	24	0.062	1.60	1.35
SRR7045-220M	22	± 20	26	2.52	18	0.082	1.35	1.10
SRR7045-330M	33	± 20	25	2.52	12	0.115	1.15	0.90
SRR7045-470M	47	± 20	29	2.52	11	0.150	0.95	0.78
SRR7045-680M	68	± 20	22	2.52	10	0.210	0.77	0.60
SRR7045-820M	82	± 20	22	2.52	9	0.280	0.70	0.60
SRR7045-101M	100	± 20	40	0.796	8	0.300	0.65	0.50
SRR7045-151M	150	± 20	51	0.796	7	0.480	0.53	0.41
SRR7045-181M	180	± 20	40	0.796	6	0.660	0.48	0.38
SRR7045-221M	220	± 20	44	0.796	5	0.700	0.45	0.36
SRR7045-331M	330	± 20	65	0.796	4	0.730	0.40	0.25
SRR7045-471M	470	± 20	80	0.796	3	1.100	0.32	0.22
SRR7045-681M	680	± 20	65	0.796	3	1.600	0.27	0.20
SRR7045-102M	1000	± 20	90	0.252	3	2.400	0.25	0.15

General Specifications

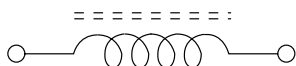
Test Voltage.....0.5 V
 Reflow Soldering ...230 °C, 50 sec. max.
 Operating Temperature -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature...-40 °C to +125 °C
 Resistance to Soldering Heat
260 °C for 10 sec.

Materials

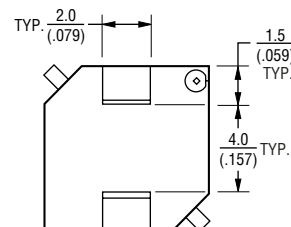
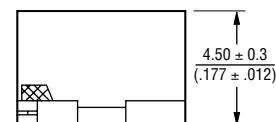
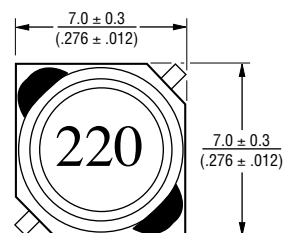
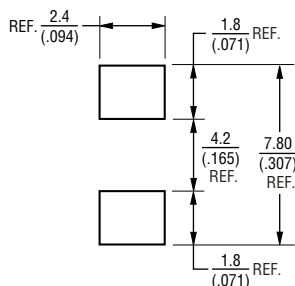
CoreFerrite DR and RI
 WireEnamelled copper wire 130
 Terminal.....Cu/Ni/Sn
 Rated Current
Ind. drop 10 % typ. at Isat
 (-100M through -221M)
Ind. drop 25 % typ. at Isat
 (-331M through -102M)
 Temperature Rise30 °C max.
 at rated I rms
 Packaging1000 pcs. per reel

Product Dimensions

Electrical Schematic



Recommended Layout

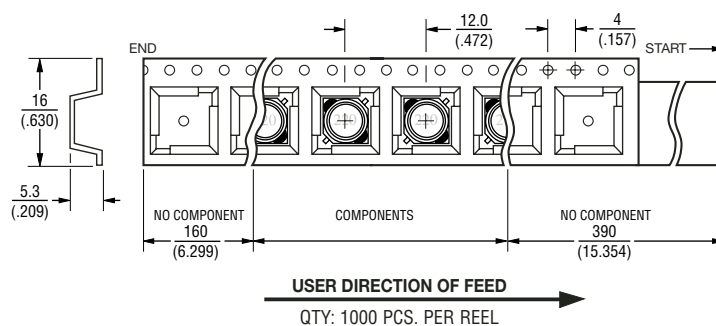
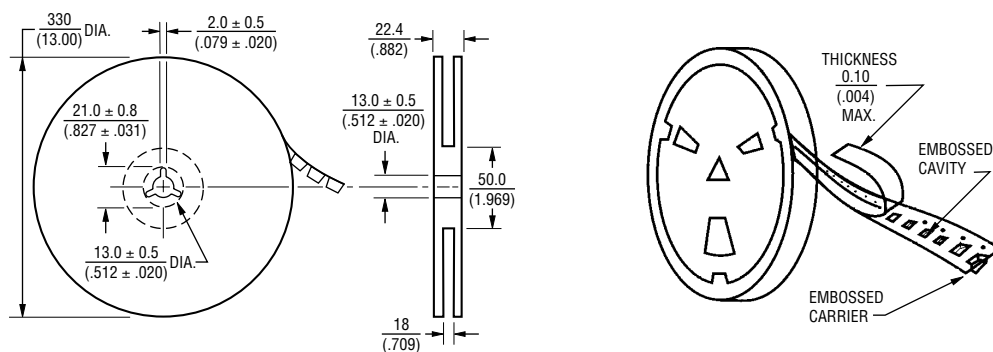


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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BOURNS®

Packaging Specifications



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

REV. 10/05

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.